

MEMORANDUM OF AGREEMENT

between the

F-22 SYSTEM PROGRAM OFFICE

Wright Patterson AFB Ohio

and the

CONTRACT ADMINISTRATION OFFICES

at

LOCKHEED MARTIN AERONAUTICAL SYSTEMS

Marietta, Georgia

and

PRATT & WHITNEY

West Palm Beach, Florida

for the

F-22/F119 PROGRAM

May 1996

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GLOSSARY

ACRONYM

ACO
 ATL
 BA Tm
 BD&SG
 CACO
 CAM
 CAO(s)*
 CAS
 CCP
 Cpk
 C/SCSC
 CSO
 CMDR OFC
 DCMC
 DFARS

 DFAS
 DIV
 DLAD
 DLAH
 DLAM
 DPAS
 ECP
 ELT
 EMD
 FAR
 FDR
 FOD
 FPRA
 GFP/GFE
 IAW
 IBR
 IEAC
 KC
 LMAS
 LMTAS
 MAR
 Mgmt
 MIL-STD
 MOA
 MRB
 NOI
 ORLAN
 P&W
 PCE
 PI
 PRR
 PST
 QA

DEFINITION

Administrative Contracting Officer
 Atlanta
 Business Assessment Team
 Boeing Defense and Space Group
 Corporate Administrative Contracting Officer
 Cost Account Manager
 Contract Administration Office(s)
 Cost Accounting Standards
 Contract Change Proposal
 Process Capability Index (2-sided specifications)
 Cost/Schedule Control System Criteria
 Contractor Self Oversight
 Commander's Office
 Defense Contract Management Command
 Defense Federal Acquisition Regulation
 Supplement
 Defense Finance Accounting Services
 Divisional
 Defense Logistics Agency Directive
 Defense Logistics Agency Handbook
 Defense Logistics Agency Manual
 Defense Priority and Allocation System
 Engineering Change Proposal
 Engine Lead Team
 Engineering/ Manufacturing Development
 Federal Acquisition Regulation
 Functional Discipline Representative
 Foreign Object Damage
 Forward Pricing Rate Agreement
 Government Furnished Property/Equipment
 In Accordance With
 Integrated Baseline Review
 Independent Estimate at Completion
 Key Characteristic
 Lockheed Martin Aeronautical Systems
 Lockheed Martin Tactical Aircraft Systems
 Monthly Assessment Report
 Management
 Military Standard
 Memorandum of Agreement
 Material Review Board
 Notice of Intent
 Orlando
 Pratt and Whitney
 Production Cost Estimate
 Program Integrator
 Production Readiness Review
 Program Support Team
 Quality Assurance

Glossary (continued)

SAN FRAN	San Francisco
SAR	Subsequent Application Review
SDP	Systems Development Plan
SPC	Statistical Process Control
SPI	Support Program Integrator
SPO	System Program Office
SRR	Scrap, Rework and Repair
STE	Special Test Equipment
TA Gp	Technical Assessment Group
VRI	Variability Reduction Instructions

***As used in this document, denotes only the CAOs at LMAS, LMTAS, BD&SG and P&W**

Memorandum of Agreement (MOA)

1. **Purpose:** This MOA establishes the special contract administration functions to be accomplished by the Contract Administration Offices (CAOs) at Lockheed Martin Aeronautical Systems (LMAS) in Marietta, Georgia, and Pratt & Whitney (P&W) in West Palm Beach, Florida, in support of the F-22/F119 Program. In order to perform the tasks outlined in this MOA, each of the above CAOs will issue delegation letters to other subtier CAOs.
2. **Scope:** This MOA outlines the relationship between the CAOs and the F-22 System Program Office (SPO) and is intended to emphasize, clarify, or add to the normal Contract Administration Services (CAS) functions listed in the Federal Acquisition Regulation (FAR) 42.302 (see Annex A); the Defense Federal Acquisition Regulation Supplement (DFARS); and DLAD 5000.4, DCMC's "One Book."
3. **Term of Agreement:** This agreement and its annexes become effective upon signature by all the designated parties. This agreement is a living document and may be changed, at any time, by mutual agreement of the signing authorities. It will be reviewed on an annual basis and updated as needed. The LMAS CAO will be responsible for the maintenance of this document.

Section I GENERAL

A. Organization:

1. **Program Support Team (PST):** The CAO Commanders at the locations listed below are responsible for appointing a Program Integrator (PI) or Support Program Integrator (SPI) where applicable and establishing a Program Support Team for the F-22/F119 Program. A roster containing names, telephone numbers and the respective responsibilities of CAO personnel at Lockheed Martin Aeronautical Systems (LMAS) in Marietta, Georgia; Lockheed Martin Tactical Aircraft Systems (LMTAS) in Fort Worth, Texas; Boeing Defense and Space Group (BD&SG) in Seattle, Washington; Pratt & Whitney in West Palm Beach (P&W WPB), Florida and in East Hartford (P&W EH), Connecticut, will be provided quarterly as Annex B to this MOA. The LMAS and P&W WPB Program Integrator (PI) will provide a complete roster of all Support Program Integrators (SPI) on a semi-annual basis.

2. **Integrated Product Teams (IPT):** To the maximum extent possible the CAOs will assign personnel to fully participate as members of the various IPTs.

3. **Personnel Resources:** Annex C identifies the various levels of support at the CAO sites.

B. **Communications:** Open, honest communication is absolutely essential to program success. Direct and frequent communications between the SPO and CAO personnel are highly encouraged. The CAOs and the SPO will work together to ensure concerns and issues are discussed in a timely manner.

C. CAO Activities:

1. **Special Efforts:** The SPO is the CAOs' primary customer. On an *ad hoc* basis the CAOs will support special efforts as requested by the SPO.

2. **Monitoring Management Systems:** The CAOs will assess the health of contractor management systems as identified in Annex D and provide monthly assessments to the SPO of systems rated marginal or unsatisfactory.

D. Security:

1. **Security Program:** The Security Program will be managed in accordance with the F-22 Security Classification Guide.

2. Visit Notification: IAW FAR 42.402, SPO personnel will contact their respective CAO counterparts to inform them about their pending visit(s) to contractor facilities. Before each visit SPO personnel should provide the names of visitors, date and duration of visit(s), purpose of visit along with name(s) of contractor personnel to be contacted. The SPO will ensure that the purpose of their visit does not pertain to duties already being done by DCMC.

E. Technical Evaluation of Contractor Proposals: The CAOs will analyze manufacturing labor, material costs, and other indirect costs such as QA, manufacturing engineering, tooling, design engineering manhours and other charges etc. of ECP/CCP and production lot contract proposals as requested by the SPO.

Section II

REPORTING REQUIREMENTS

A. Monthly Assessment Report (MAR): The LMAS, LMTAS and BD&SG CAOs will prepare comprehensive monthly reports detailing program status, concerns and highlights summarizing inputs provided by the SPIs. These reports will be submitted to the LMAS CAO, SPO (ASC/YFM), the contractor and the SPIs. These reports will be distributed in accordance with Annex E by ASC/YFM. Although P&W WPB CAO will not prepare a comprehensive monthly report, P&W EH CAO will prepare a comprehensive F119 manufacturing status summary report. This report will be submitted to P&W WPB CAO, SPO Engine Lead Team (ELT) and the contractor.

B. Award Fee Inputs: The CAO's personnel will provide award fee inputs to the SPO on a monthly basis in accordance with the guidelines furnished each award fee period. The CAOs will participate in the monthly Award Review Board (ARB) meetings via electronic media (picture-tel). The LMAS and P&W DCMC Commanders and/or staff will attend mid-term and final ARB briefings.

C. Bellringer Reports: The Bellringer process provides timely information to senior acquisition officials on procurement issues likely to make national news, precipitate congressional hearings or impact major programs. As a minimum, the Bellringer will include the subject, a situation over-view, and the CAO Commander's evaluation and recommendations. Because Bellringers often address significant program events, the CAOs will coordinate with the SPO (ASC/YFM) and prime CAO (i.e., LMAS for air vehicle and P&W WPB for engine) before submitting any Bellringer Reports to DCMC.

D. Industrial Labor Relations: The LMAS, LMTAS, BD&SG and P&W CAOs will provide impact assessments of potential labor actions resulting from Union contract negotiations or labor disputes to the SPO (ASC/YFM) and the Industrial Labor Relations Officer or designated government liaison representative.

Section III OPERATIONS

A. Configuration Management

1. Material Review: The CAO will conduct random audits of the material review process. Particular emphasis shall be placed on verification that the contractor's material review system properly identifies and dispositions nonconformances that impact contractual performance specifications. In the event these metrics and/or audits indicate weaknesses or failures to these processes, the CAOs will notify the contractors and the SPO and work with the contractors to correct the weakness or failure.

2. Audits: The CAOs will participate and/or assist in the contractor conducted functional and physical configuration audits.

B. Manufacturing and Product Assurance:

1. First Article Inspection: The CAOs will participate in contractor conducted First Article Inspection on detail parts, components, subassemblies, and final assemblies.

2. Variability Reduction/Process Certification: The CAOs will ensure the contractor has a system/formal program to reduce end item inspection. Monitor and assist the contractor and SPO in evaluating the contractor's Variability Reduction Program efforts. Review Variability Reduction Instructions (VRIs) associated with Key Characteristics (KCs) identified on drawings. Determine if Statistical Process Control is being properly applied and utilized. Monitor the contractor's efforts to mature all key processes tied to KCs to a Cpk of 1.33 by high rate production.

3. IMP/IMS Closure: The CAOs will review and provide input to the appropriate SPO IPT manufacturing/quality focal point of all QA IMPs/IMSs prior to closure.

4. Tooling Program: The CAOs will ensure that tooling policies for in-house and subcontract tooling are current and followed. Areas of evaluation will include tooling configuration control, critical interfaces and the coordination of tooling alignment points between various contractors.

5. Scrap, Rework, Repair/Defects per Million: The CAOs will assist the contractor and SPO in assessing the contractor's Scrap, Rework and Repair (SRR) and corrective action effectiveness. Aid the contractor and SPO in identifying adverse trends, persistent lack of process improvement, or unusual/abnormal changes. In partnership with the contractor and the SPO, the CAOs will investigate root causes and corrective action as appropriate for any significant process problem areas.

6. Production Cost Estimate (PCE): As requested, the CAOs will assess the credibility of the contractor's PCE for specific parts/assemblies.

7. Production Readiness Reviews (PRRs): The CAOs will participate in PRRs. Review and provide an assessment of the PRR report to the SPO. Ensure the contractor highlights obsolete/discontinued parts issues and processes which will jeopardize production due to obsolescence and/or manufacturing source loss.

8. Work Measurement: The CAOs will monitor implementation of the contractor's work measurement system for the F-22 to facilitate the use of this data in negotiation of production contracts.

9. EMD Performance Acceptance: The CAOs will support the SPO in the development and implementation of a performance based acceptance approach. CAO representatives will participate in the acceptance working group chartered to define and implement the common acceptance process. The CAO will support the common team goals of accepting end-item deliverables to specific performance requirements verified by integrated SPO/user/CAO/contractor audit teams in lieu of end-item inspection. Common processes advocated under the DCMC single process initiatives will be evaluated to ensure consistency with the performance based acceptance approach.

10. Production Schedule Analysis: The CAOs will analyze the contractors production schedule status and project impact of any behind schedule status to end item delivery (air vehicle, support equipment or training equipment).

11. Quality Assurance Delegations: Subcontract or source quality assurance delegations may be issued to ensure that the Variability Reduction/Process Certification Program (reference paragraph III.B.2) is being properly implemented at sub-tier levels. The need for contract quality assurance at source/subcontract level shall be determined in accordance with the decision criteria stipulated in FAR Parts 46.402 and 46.405. If contract quality assurance functions are delegated to a supporting CAO, such delegations shall be fully in accordance with DLAD 5000.4 and this MOA. CAO inspection and placement of the Government Source Inspection stamp on products prior to shipment is not required or desired. Prior to imposing any MGIs or GSIs, to address a CAO concern about the adequacy of the contractor's quality system, the CAO will require the contractor to provide a corrective action plan to address the specific concern. If the CAO determines the corrective action plan (CAP) is inadequate the CAO shall provide written notification to the F-22 SPO and contractor. The notification shall explain why the CAP is inadequate, and of their intent to impose a MGI or GSI. Any MGIs directed by the CAO Government Flight Representative (GFR) or Chief of Flight Operations (CFO) to assure safe conduct of flight operations shall be implemented immediately. The F-22 SPO shall be notified in writing of any MGIs imposed in this manner.

C. Engineering, Design and Development Evaluation

1. Engineering Evaluation: The CAOs will evaluate the contractor's engineering activities with emphasis on design change process, interface control and their impact to aircraft/engine performance.

2. Build To Packages: The CAOs will evaluate the status of the Build-to-Packages and provide assessments to the SPO.

3. Software Surveillance:

a. Program: The CAOs will monitor contractor's compliance to the applicable F-22/F119 software development plan. Monitor and assist contractor and SPO during software development by providing technical input, communicating issues, identifying software development risk and/or problems and recommending solutions.

b. Documentation: The CAOs will sample design documentation and software development files including source code, software schedules, metrics, configuration, software quality assurance activities, and other data affecting the performance, cost, supportability and maintenance of software products.

c. Subcontractor Management: The CAOs will monitor and coordinate subcontractor software design activities by communicating with DCMC on-site personnel, SPO and when appropriate, subcontractor personnel.

D. Property/Plant Clearance

1. Government Furnished Property (GFP)/ Government Furnished Equipment (GFE):

a. GFP/GFE Delivery Monitoring: The CAOs will monitor the contractor's process for effectively tracking GFP/GFE requirements and deliveries and coordinate status with the GFP/GFE manager (ASC/YFS).

b. GFP/GFE Disposal/Reallocation: The CAOs will assist in the disposal/reallocation of GFP/GFE throughout the program, as required. The CAO is responsible for assuring that the disposition of GFP/GFE is in accordance with the contract and performed in a manner considered most favorable to the Government.

c. GFE Repair: The LMAS ACO will review and approve/disapprove all CLIN 0011 (Repair of Repairables) over and above work, and provide a monthly report of financial obligation and expenditures status to ASC/YFS. The DCMC LMAS ACO will also provide timely estimated budget requirements for annual budget exercises.

2. Special Test Equipment (STE): The CAOs ACOs will accomplish tasks necessary to ensure Special Test Equipment (STE) approvals/disapprovals are accomplished within 30 days of receipt. Technical assistance and evaluations to determine validity and proper

classification of contractor's request will be obtained as necessary. Ensure the contractor's established procedures are being followed.

E. Contractor Performance Measurement:

1. Cost Schedule Control Systems Criteria (C/SCSC) Guidance and Policy: The CAOs will perform C/SCSC surveillance responsibilities in accordance with DLAH 8400.2 (Cost/Schedule Control Systems Criteria Joint Implementation Guide) and DLAD 5000.4 (DCMC's One Book).

2. Reviews: The CAOs will participate in C/SCSC demonstrations and/or Subsequent Application Reviews (SAR) and/or Integrated Baseline Reviews (IBR) and monitor any subsequent contractor corrective actions. The CAOs will periodically interview Cost Account Managers (CAM)/Functional Discipline Representatives (FDR) to evaluate projected performance and verify cost/schedule reporting.

3. Cost/Schedule Performance Analysis:

a. Prime: The LMAS and P&W CAOs will perform cost/schedule performance analyses at the prime contractor level. The CAOs will perform analyses of the major critical subcontractors through delegations to the local DCMC field activity offices. These analyses will be forwarded to the SPO.

b. Subcontractors: As directed by the SPO, the CAOs will task field level activities with performing cost/schedule performance analyses on designated subcontractors.

c. Independent Estimate at Completion (IEAC): The CAOs will develop an IEAC containing clarification of any differences between the contractor's EAC and the CAO's IEAC.

d. Should Cost Support: The CAOs will support should cost activities as necessary.

F. Safety

1. Flight Operations: The LMAS CAO will conduct a full flight operations program in accordance with DLAD 5000.4 and DLAM 8210.1, Vol I and Vol II. This includes Government Flight Representative approval of the contractor's flightline and flight operations.

2. Foreign Object Damage (FOD): The CAOs will conduct general FOD maintenance and safety compliance surveys.

G. Subcontract Management: While it is acknowledged that the management of its subcontractors is the responsibility of the prime contractor, LMAS and P&W, the cognizant CAO will take an active role in monitoring subcontractor performance at major critical and other designated subcontractors. This will be accomplished through formal

delegation to the SPI network. The SPI at each delegated subcontractor will be requested to provide the support necessary to fulfill the requirements of this MOA. The CAOs will expeditiously report to the SPO any subcontractor performance problems (technical, quality, cost, or schedule) which have the potential of impacting prime contract performance.

Annex A

FAR 42.302 Contract Administration Functions

The following are the normal contract administration functions to be performed by the cognizant CAO, to the extent they apply as described in 42.202. The CAOs will perform the duties as indicated for the F-22 program:

	LMAS	LMTAS	BD&SG	P&W
1. Review compensation structure	BA Tm	*	X	X
2. Review Insurance plans	BA Tm	*	X	X
3. Conduct post-award conferences	X	*	X	X
4. Review & evaluate proposals	X	X	X	X
5. Negotiate FPRAs	BA Tm	*	X	X
6. Negotiate advance agreements	BA Tm	*	X	X
7. Review vouchers	X	X	X	X
8. Issue notice of intent to disallow costs	X	*	X	X
9. Establish final billing rates	BA Tm	*	X	X
10. Handle disputes	X	*	X	X
11. Administer CAS	X	X	X	X
12. Administer progress payments	N/A	N/A	N/A	N/A
13. Make payments	DFAS	DFAS	DFAS	DFAS
14. Manage special bank accounts	DCMC ATL	N/A	N/A	N/A
15. Ensure timely notification of over/underrun	X	X	X	X
16. Monitor financial condition	X	*	X	X
17. Analyze quarterly limitation	X	*	X	AS REQ
18. Issue tax exempt certificates	X	*	N/A	N/A
19. Process duty-free certificates	X	X	X	X
20. Administer security	X	*	X	X
21. Issue work requests	X	*	X	AS REQ
22. Negotiate special rate agreements	X	*	X	X
23. Work termination for convenience	X	N/A	N/A	DCMC ATL
24. Work cancellation charges for multiyear contracts	X	*	X	X
25. Process novation/name change	BA Tm	*	CACO	X
26. Perform property administration	X	*	X	X
27. Approve STE	X	X	X	X
28. Perform plant clearance	X	*	X	DCMC ORLAN
29. Issue modification for disposition	X	N/A	N/A	X
30. Administer facilities contract	BA Tm	*	X	X
31. Perform production support	X	*	X	X
32. Perform pre-award surveys	X	X	X	X
33. Advise & assist DPAS rating	X	*	X	X
34. Monitor industrial labor relations	X	*	X	X

Annex A: Continued				
	LMAS	LMTAS	BD&SG	P&W
35. Perform traffic management services	DCMC ATL	N/A	N/A	DCMC ORLAN
36. Review adequacy of traffic operations	DCMC ATL	*	DCMC SEATTLE	DCMC ORLAN
37. Review/evaluate preservation, packaging and packing	DCMC ATL	*	DCMC SEATTLE	DCMC ORLAN
38. Administer quality assurance requirements	X	*	X	X
39. Ensure safety requirement compliance	CMDR OFC	*	DCMC SEATTLE	X
40. Perform engineering surveillance	X	*	X	X
41. Evaluate engineering surveillance	X	*	X	X
42. Review logistics support	X	*	X	X
43. Report inadequacies in specifications	X	*	X	X
44. Perform engineering analyses of cost proposals	X	*	X	X
45. Review and analyze studies	X	*	X	X
46. Review engineering change proposals	X	X	X	X
47. Accept or reject waivers and deviations	X	NO	X	AS REQ
48. Monitor restrictive markings on data	X	*	X	X
49. Monitor value engineering program	N/A	N/A	N/A	N/A
50. Review purchasing system	DCMC ATL	*	DCMC SAN FRAN	X
51. Consent to subcontracts	X	X	X	X
52. Review S/SDB master subcontracting plans for commercial products	CMDR OFC	X	DCMC SEATTLE	DCMC ORLAN
53. Obtain S/SDB subcontracting plans	CMDR OFC	*	DCMC SEATTLE	DCMD ORLAN
54. Evaluate S/SDB subcontracting plans	CMDR OFC	*	DCMC SEATTLE	DCMC ORLAN
55. Assist small business firms	CMDR OFC	N/A	DCMC SEATTLE	N/A
56. Maintain surveillance of flight operations	X	N/A	N/A	X
57. Assign and perform supporting contract administration	X	X	X	X
58. Ensure timely submission of reports	X	X	X	X
59. Issue administrative mods	X	N/A	N/A	X
60. DD 250	X	N/A	N/A	X
61. Obtain proposals for adjustments resulting from amended shipping instructions	X	N/A	N/A	X
62. Negotiate delivery schedule extensions	X	N/A	N/A	X
63. Cancel unilateral purchase orders	X	N/A	N/A	N/A
64. Negotiate delivery schedule extensions	X	N/A	N/A	X
65. Accomplish administrative close-out	X	N/A	N/A	X
66. Determine drug-free workplace program	CMDR OFC	N/A	N/A	X
67. Support program offices	X	X	X	X
68. Monitor compliance with environmental laws	CMDR OFC	N/A	N/A	X

NOTES RELATIVE TO ANNEX A

*NOTE: Certain functions are performed by each organization's Technical Assessment Group (TA Gp), Business Assessment Team (BA Tm), the Command Area Office, or assigned to the cognizant Commander's Office (CMDR OFC); contact the CAO for determination of internal agency responsibility. An X means a F-22 PST member is responsible for that activity.

Annex B

F-22 Program Support Team Points of Contact

LMAS CAO

Marietta

<u>Position</u>	<u>Name</u>	<u>Telephone</u>
Program Integrator	Major Eric Garvin	770-793-0474
Administrative Contract Officer	Franklin Carey	770-793-0475
Team Leader	Brad Keim	770-793-0477
Secretary	Merry Bates	770-793-0478
Logistics Mgmt. Specialist	Helmut Baxter	770-793-0768
Engineering	Jerry Joyner	770-793-0769
Engineering	Ken Sturdivant	770-793-0782
Industrial Specialist	NaRance White	770-793-0766
Industrial Engineer, C/SCSC	Harry Montgomery	770-793-0766
General Engineer (Industrial)	Phil Carrington	770-793-0768
Safety	Tom Mercier	770-494-3737
Subcontracts ACO	Rebecca Vanderpool	770-793-0473
Property	Helmut Baxter	770-494-4375
Flight Operations	Capt. Mark Truchan	770-494-5191
Security	Peggy Sanger	770-494-2143
Quality Assurance Specialist	Charles Brown	770-793-0773
Quality Assurance Specialist	John Cicio	770-793-0770
Quality Assurance Engineer	Jerry Copeland	770-793-0776
Quality Assurance Specialist	Carolyn DeVane	770-793-0775
Software QA Specialist	Jack Gabel	770-793-0788
Software Engineer	Angela Compton	770-793-0790
Quality Assurance Specialist	Gordon Sonderegger	770-793-0792
Facsimile Machine		770-793-0753

Annex B
(continued)

F-22 Program Support Team
LMTAS CAO
Ft Worth

<u>Position</u>	<u>Name</u>	<u>Telephone</u>
Support Program Integrator	Major Jerry McDaniel	817-935-3691
Administrative Contracting Officer	Carolyn Franke	817-935-4100
Team Leader	Don Bearden	817-935-4774
Subcontracting Management Officer	Capt. John McLaurin	817-935-4300
Electronics Engineer	Jim Davis	817-935-3923
Program Assistant, Security	Barbara Barrows	817-935-3692
Aerospace Engineer	Dung Van Ho	817-935-3212
QA Specialist (Aircraft)	John Lemons	817-935-3535
Industrial Engineer, C/SCSC	Dale Mazachek	817-935-4623
QA Specialist (Elect)	Herb Aggas	817-935-3922
Industrial Engineer	Jon Carter	817-935-3525
QA Specialist (Aircraft)	Charlie Caskey	817-763-7056
Aerospace Engineer	Jeff Curtis	817-935-4974
QA Specialist	Gary Dillon	817-763-7057
Aerospace Engineer	Rao Edupuganti	817-935-3269
QA Specialist	Jim Fitzgerald	817-935-3766
Industrial Specialist	Harry Gardner	817-763-4720
Logistics Specialist	Capt. Randy Pilling	817-935-3552
Electrical Engineer	Tom Rejmaniak	817-935-4985
QA Specialist	Dennis Sinks	817-935-4794
Aerospace Engineer	John Swint	817-935-2805
Industrial Specialist	Mike Vincent	817-935-3334
Electrical Engineer	Karen Coleman	817-935-2912
QA Specialist (C/S)	Paula Hooper	817-935-2926
Facsimile Machine		817-935-3800

Annex B
(continued)

F-22 Program Support Team
BD&SG CAO
Boeing Seattle

<u>Position</u>	<u>Name</u>	<u>Telephone</u>
Support Program Integrator	Mark Terry	206-662-2288
Administrative Contracting Officer	Richard Bean	206-662-2289
Software Engineer	Capt. Tom Akin	206-622-0635
QA Specialist	Ed Audorff	206-655-7381
QA Engineer	Al Brubaker	206-544-1288
Engineer	Mike Chun	206-655-7382
Procurement Technician	Karen Crumley	206-655-0874
Quality Program Manager	Bill Coates	206-662-2054
Engineer	Selby Hansen	206-657-1085
QA Engineer	Dave Kent	206-544-4665
Engineer	Capt. Greg McNew	206-662-0815
Manufacturing Engineer	Len Rogowski	206-655-7375
Operations	Franz Schapperer	206-773-7180
Contract Administrator	Rayola Septon	206-655-0472
Engineer	Major Ralph Urch	206-655-7386
Software Engineer	Lee VanHee	206-662-1294
Manufacturing Engineer	Walt Wong	206-655-0613
C/SCSC Surveillance Monitor	Capt. Gary Cassano	206-655-5675
Facsimile Machine		206-655-0625

Annex B
(continued)

F119 Program Support Team
Pratt & Whitney CAO
West Palm Beach & East Hartford

<u>Position</u>	<u>Name</u>	<u>Telephone</u>
<i>West Palm Beach PST</i>		
Program Integrator	Major Marc Hoffman	407-796-5152
Administrative Contracting Officer	Dian Williams	407-796-5058
Logistics/Training	Ron Broome	407-796-2175
Manufacturing	Les Brown	407-796-2924
Tech Order Data	Warren Gray	407-796-5481
*Property	John Hayes	407-796-5452
Quality	Mike Kelly	407-796-2174
Engineering	Myles Ritter	407-796-2484
Pricing	Joe Riemenschneider	407-796-5744
Engineering, C/SCSC	Sonny Shannon	407-796-2153
Quality (Software)	Bob Tunnell	407-796-2177
Contract Administrator	Patcy Wesley	407-796-2667
Facsimile Machine		407-796-2200
<i>East Hartford PST</i>		
Support Program Integrator	Howard Rae	860-565-8597
Div Administrative Contracting Officer	Bill Morrow	860-565-8560
Engineer	Chris Poplizio	860-565-8510
Engineer	Maurice Bridge	860-565-8602
Engineer, C/SCSC	Paul Friedman	860-565-8604
Quality Assurance	Dave Lapa	860-565-8638
Overhead Cost Monitor	Jim Mulcahy	860-565-0020
**Property	Stan Morytko	860-291-7740
Facsimile Machine		860-565-3682

*Works out of DCMC Orlando

**Works out of DCMC Hartford

Annex C
Support Availability Matrix

	LMAS CAO	LMTAS CAO	BD&SG CAO	P&W CAO
Section I: General				
A.1. Program Support Team	YES	YES	YES	YES
A.2. IPTs	YES	YES	YES	YES
A.3. Personnel Resources				
B. Communications	YES	YES	YES	YES
C.1. Special Efforts	YES	YES	YES	YES
C.2. Monitoring Management Systems	YES	YES	NO	YES
D.1. Security Program	YES	YES	YES	YES
D.2. Visit Notification	YES	YES	YES	YES
E. Technical Evaluation of Contractor Proposal	YES	YES	YES	YES
Section II: Reporting Requirements				
A. Monthly Assessment Report (MAR)	YES	YES	YES	NO
B. Award Fee Inputs	YES	YES	YES	YES
C. Bellringer Reports	YES	YES	YES	YES
D. Industrial Labor Relations	YES	YES	YES	YES
Section III: Operations				
A.1. Material Review	YES	YES	YES	YES
A.2. Audits	YES	YES	YES	YES
B.1. First Article Inspection	YES	YES	YES	YES
B.2. Variability Reduction	YES	YES	YES	YES
B.3. IMP/IMS Closure	YES	YES	YES	YES
B.4. Tooling Program	YES	YES	YES	YES

ANNEX C
(continued)

LMAS LMTAS BD&SG P&W
CAO CAO CAO CAO

Section III: Operations (continued)

B.5.	Scrap, Rework and Repair/Defects per Million	YES	YES	YES	YES
B.6.	Production Cost Estimate	YES	YES	YES	YES
B.7.	Production Readiness Reviews	YES	YES	YES	YES
B.8.	Work Measurement	YES	YES	YES	YES
B.9.	Subcontract Management	YES	YES	YES	YES
B.10.	Production Schedule Analysis	YES	YES	YES	YES
B.11	Quality Assurance Delegations	YES	YES	YES	YES
C.1.	Engineering Surveillance	YES	YES	YES	YES
C.2.	Build To Packages	YES	YES	YES	YES
C.3.a.	Software Program Surveillance	YES	YES	LIMITED	YES
C.3.b.	Software Documentation Surveillance	YES	YES	NO	YES
C.3.c.	Software Subcontract Management	YES	YES	NO	N/A
D.1.a.	GFP/GFE Delivery Monitoring	YES	LIMITED	YES	LIMITED
D.1.b.	GFP/GFE Disposal/Reallocation	YES	LIMITED	YES	LIMITED
D.1.c.	GFE Repair	YES	NO	NO	NO
D.2.	Special Test Equipment (STE)	YES	LIMITED	YES	YES
E.1.	Contractor Cost/Schedule Control Systems Criteria (C/SCSC) Guidance and Policy	YES	YES	YES	YES
E.2.	Reviews	YES	YES	YES	YES
E.3.	Cost/Schedule Performance Analysis	YES	YES	YES	YES
E.3.a.	Prime	YES	YES	YES	YES
E.3.b.	Subcontractor	YES	YES	YES	YES
E.3.c.	Independent Estimate at Completion (IEAC)	YES	YES	YES	YES
E.3.d.	Should Cost Support	YES	YES	YES	YES
F.1.	Flight Operations	YES	N/A	N/A	N/A
F.2.	Foreign Object Damage (FOD)	YES	YES	CSO	YES
G.	Subcontract Management	YES	YES	YES	YES

NOTES RELATIVE TO ANNEX C

NO - this CAO will not perform this function or task at a specific site due to limited personnel resources

CSO - low to moderate risk areas where processes are understood and under control

N/A - this particular activity is not applicable to a specific CAO site

Limited - the CAO will provide limited support in this area, or, the function is being performed by a DCMC area office and/or other agency.

ANNEX D

MATRIX FOR REPORTING MANAGEMENT SYSTEM ASSESSMENTS

	LMAS	LMTAS	BD&SG	P&W
Program Management	YES	YES	NO	YES
Production	YES	YES	NO	YES
Subcontract Management	YES	YES	NO	YES
Engineering	YES	YES	NO	YES
Quality Assurance	YES	YES	NO	YES
Accounting	YES	YES	NO	YES
Estimating/Pricing	Technical Assessment Team	YES	NO	YES
Purchasing	DCMC Atlanta	YES	NO	YES
Small Business	Technical Assessment Team	YES	NO	DCMC Orlando
Property	Technical Assessment Team	YES	NO	DCMC Orlando
Transportation/Packaging	Technical Assessment Team	YES	NO	DCMC Orlando
ADPE	YES	YES	NO	YES
MMAS	YES	YES	NO	YES
Compensation/Insurance	YES	YES	NO	YES
Safety	YES	YES	NO	YES
Flight Operations	YES	YES	NO	N/A

Annex E

F-22 SPO Distribution List for Monthly Assessment Report (MAR)

	LMAS CAO	LMTAS CAO	BD&SG CAO
ASC/YFM	X	X	X
ASC/YFE	X	X	X
ASC/YFT	X	X	X
ASC/YFL	X	X	X
ASC/YFH	X	X	X
ASC/YFK	X	X	X
ASC/YFP	X	X	X
ASC/YFF	X	X	X
ASC/YFFA	X	X	X
ASC/YFFC	X	X	X
ASC/YFFF	X	X	X
ASC/YFFI	X	X	X
ASC/YFFM	X	X	X
ASC/YFFU	X	X	X
ASC/YFFV	X	X	X
ASC/YFFW	X	X	X
ASC/YFZ	X	X	X
ASC/YFS	X	X	X

Note: ASC/YFM will make the MARs available to the organizations listed above